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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
09/943,739	09/04/2001	Christian Kunert	SGW-110	8521		
23599 75	23599 7590 07/20/2004			EXAMINER		
	HITE, ZELANO & BRA	WALLS, DIONNE A				
2200 CLAREN SUITE 1400	DON BLVD.	ART UNIT	PAPER NUMBER			
ARLINGTON, VA 22201			1731			
			DATE MAILED: 07/20/2004	4		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	n No.	Applicant(s)	7,			
		09/943,73	9	KUNERT ET AL.				
		Examiner		Art Unit				
		Dionne A.	Walls	1731				
Period fo	The MAILING DATE of this communication r Reply	n appears on the	cover sheet with the	correspondence add	dress			
THE I - Exter after - If the - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION (Signature) of time may be available under the provisions of 37 CF (SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by seply received by the Office later than three months after the digrated term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no eve on. a reply within the statu eriod will apply and wi statute, cause the appl	ent, however, may a reply be ti utory minimum of thirty (30) da Il expire SIX (6) MONTHS fron ication to become ABANDONI	mely filed ys will be considered timely n the mailing date of this co ED (35 U.S.C. § 133).	mmunication.			
Status								
1)	Responsive to communication(s) filed on ;	<u>30 June 2004</u> .						
· · · · · · · · · · · · · · · · · · ·								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)⊠ 6)□ 7)⊠	 Claim(s) 1, 3-4,6-14 and 16-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 4 and 17 is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers							
9)🗀 ˈ	The specification is objected to by the Exa	miner.						
10)[10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119							
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Besee the attached detailed Office action for	ments have bee ments have bee priority docume ureau (PCT Rul	n received. n received in Applica ents have been receiv e 17.2(a)).	tion No red in this National	Stage			
Attachmen			"П.	(070.412)				
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94 nation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date		4) Interview Summar Paper No(s)/Mail E 5) Notice of Informal 6) Other:		D-152)			

Art Unit: 1731

DETAILED ACTION

Reopening of Prosecution

Applicant's arguments filed on June 30, 2004 with respect to the rejection of claims 1-14 and 16-22, which used Krumwiede et al as a primary reference, has been fully considered and is persuasive. Therefore, the FINALITY of the rejection of the last Office Action, dated April 1, 2004 has been WITHDRAWN. However, upon further consideration, a new ground of rejection is made over Kremers (US. Pat. No. 2,155,315). In view of the discovery of the above-cited art, PROSECUTION IS HEREBY REOPENED as set forth below.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claims 1 and 9 recite the limitation "its orifice". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 09/943,739

Art Unit: 1731

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5. Claims 1,3, 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kremers (US. Pat. No. 2,155,315).

Regarding claims 1 and 18, Kremers discloses a device which comprises a mixing/cooling tube 13,20,22 and a jacket 25 that encases the tube up to its orifice (see fig.2), wherein the tube is constructed of platinum, or of some other material lined with platinum, and wherein the jacket is provided with a cooling fluid (see page 1, and fig. 2). While the Kremers reference may not specifically state that the device of its invention is utilized for the purpose of introducing a gas into a hot medium, it is still deemed to be readable on the claims since a claim containing recitation with respect to the manner in which a claimed article is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus if the prior art apparatus teaches all the structural limitations of the claim. See MPEP 2114. Further, the device of Kremers is capable of being used to introduce a gas into a hot medium; therefore, the preamble claim limitations articulating this function do not patentably distinguish the claim from the reference.

Regarding claim 3, while Kremers may not specifically state that the cooling fluid present in the cooling jacket is a gas, oil, water, aqueous solution or mixture of the above, it would follow that one having ordinary skill in the art would obviously chose any one of these materials as a coolant since these, especially water, are typically used for cooling purposes.

Regarding claim 16, since Kremers states that the tube can be fabricated of some other material lined with platinum, it would have been an obvious choice to select

Application/Control Number: 09/943,739

Art Unit: 1731

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steel for the pipe's core material since this material is conventionally used, due to its cheap cost and wide availability.

Allowable Subject Matter

- 6. Claims 4 and 17 are allowed.
- 7. Claims 6-14, and 19-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dionne A. Walls whose telephone number is (571) 272-1195. The examiner can normally be reached on Mon-Fri, 7AM - 4:30PM (Every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on (571) 272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 09/943,739

Art Unit: 1731

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dionne A. Walls Primary Examiner Art Unit 1731

July 15, 2004